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1 Connections: using context to enhance file search
Craig A. N. Soules, Gregory R. Ganger
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5
Publisher: ACM Press
Full text available: pdf(360.72 KB) Additional Information: full citation, abstract, references, index terms

Connections is a file system search tool that combines traditional content-based search with context information gathered from user activity. By tracing file system calls, Connections can identify temporal relationships between files and use them to expand and reorder traditional content search results. Doing so improves both recall (reducing false-positives) and precision (reducing false-negatives). For example, Connections improves the average recall (from 13% to 22%) and precision (from 23% t ...

Keywords: context, file system search, successor models

2 Level set and PDE methods for computer graphics
David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.07 MB) Additional Information: full citation, abstract

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

3 On integrating catalogs
Rakesh Agrawal, Ramakrishnan Srikant
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(231.96 KB) Additional Information: full citation, references, citings, index terms

Keywords: Web marketplaces, Web portals, catalog integration, categorization, classification, data mining

4 Papers from MC²R open call: Weighted coloring based channel assignment for WLANs

Arunesh Mishra, Suman Banerjee, William Arbaugh

July 2005 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 9 Issue 3

Publisher: ACM Press

Full text available: pdf(502.67 KB) Additional Information: full citation, abstract, references

We propose techniques to improve the usage of wireless spectrum in the context of wireless local area networks (WLANs) using new channel assignment methods among interfering Access Points (APs). We identify new ways of channel re-use that are based on realistic interference scenarios in WLAN environments. We formulate a weighted variant of the graph coloring problem that takes into account realistic channel interference observed in wireless environments, as well as the impact of such interferenc ...

5 Search 2: Searching with numbers

Rakesh Agrawal, Ramakrishnan Srikant

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(238.60 KB) Additional Information: full citation, abstract, references, citings, index terms

A large fraction of the useful web comprises of specification documents that largely consist of hattribute name, numeric valuei pairs embedded in text. Examples include product information, classified advertisements, resumes, etc. The approach taken in the past to search these documents by first establishing correspondences between values and their names has achieved limited success because of the difficulty of extracting this information from free text. We propose a new approach that does not r ...

6 Overlays: On selfish routing in internet-like environments

Lili Qiu, Yang Richard Yang, Yin Zhang, Scott Shenker

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Publisher: ACM Press

Full text available: pdf(187.73 KB) Additional Information: full citation, abstract, references, citings, index terms

A recent trend in routing research is to avoid inefficiencies in network-level routing by allowing hosts to either choose routes themselves (*e.g.*, source routing) or use overlay routing networks (*e.g.*, Detour or RON). Such approaches result in *selfish* routing, because routing decisions are no longer based on system-wide criteria but are instead designed to optimize host-based or overlay-based metrics. A series of theoretical results showing that selfish routing can result in ...

Keywords: game theory, optimization, overlay, relaxation, selfish routing, traffic engineering, traffic equilibrium

7 Designing committees of models through deliberate weighting of data points

Stefan W. Christensen, Ian Sinclair, Philippa A. S. Reed

December 2003 **The Journal of Machine Learning Research**, Volume 4

Publisher: MIT Press

Full text available: pdf(205.46 KB) Additional Information: full citation, abstract, references, index terms

In the adaptive derivation of mathematical models from data, each data point should contribute with a weight reflecting the amount of confidence one has in it. When no additional information for data confidence is available, all the data points should be considered equal, and are also generally given the same weight. In the formation of committees of models, however, this is often not the case and the data points may exercise unequal, even random, influence over the committee formation. In this ...

8 Distributed computing feasibility in a non-dedicated homogeneous distributed system

S. T. Leutenegger, X.-H. Sun

December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(783.11 KB) Additional Information: full citation, references, citings, index terms

9 Interposed proportional sharing for a storage service utility

Wei Jin, Jeffrey S. Chase, Jasleen Kaur

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems SIGMETRICS 2004/PERFORMANCE 2004**, Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(339.02 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper develops and evaluates new share-based scheduling algorithms for differentiated service quality in network services, such as network storage servers. This form of resource control makes it possible to share a server among multiple request flows with probabilistic assurance that each flow receives a specified minimum share of a server's capacity to serve requests. This assurance is important for safe outsourcing of services to shared utilities such as Storage Service Providers.Our appr ...

Keywords: differentiated service, fair sharing, multiprocessor scheduling, performance isolation, proportional sharing, quality of service, storage services, utility computing, weighted fair queuing

10 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: full citation

11 Performance characterization of decentralized algorithms for replica selection in distributed object systems

Ceryen Tan, Kevin Mills

July 2005 **Proceedings of the 5th international workshop on Software and performance WOSP '05**

Publisher: ACM Press

Full text available: pdf(118.47 KB) Additional Information: full citation, abstract, references, index terms

Designers of distributed systems often rely on replicas for increased robustness, scalability, and performance. Replicated server architectures require some technique to select a target replica for each client transaction. In this paper, we use simulation to

characterize performance (response time, selection error, probability of server overload) for four common replica-selection algorithms (random, greedy, partitioned, weighted) when applied in a decentralized form to client queries in a distri ...

Keywords: distributed object systems, replica selection

12 A price-anticipating resource allocation mechanism for distributed shared clusters

Michal Feldman, Kevin Lai, Li Zhang

June 2005 **Proceedings of the 6th ACM conference on Electronic commerce**

Publisher: ACM Press

Full text available: pdf(232.83 KB) Additional Information: full citation, abstract, references, index terms

In this paper we formulate the fixed budget resource allocation game to understand the performance of a distributed market-based resource allocation system. Multiple users decide how to distribute their budget *bids*) among multiple machines according to their *individual preferences* to maximize their individual utility. We look at both the efficiency and the fairness of the allocation at the equilibrium, where fairness is evaluated through the measures of *utility uniformity* an ...

Keywords: Nash equilibrium, fairness, price of anarchy, price-anticipating mechanism, resource allocation

13 Measurement: The causes of path inflation

Neil Spring, Ratul Mahajan, Thomas Anderson

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Publisher: ACM Press

Full text available: pdf(239.99 KB) Additional Information: full citation, abstract, references, citings, index terms

Researchers have shown that the Internet exhibits path inflation -- end-to-end paths can be significantly longer than necessary. We present a trace-driven study of 65 ISPs that characterizes the root causes of path inflation, namely topology and routing policy choices within an ISP, between pairs of ISPs, and across the global Internet. To do so, we develop and validate novel techniques to infer intra-domain and peering policies from end-to-end measurements. We provide the first measured charact ...

14 Session 4C: Experimental analysis of dynamic all pairs shortest path algorithms

Camil Demetrescu, Stefano Emiliozzi, Giuseppe F. Italiano

January 2004 **Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(280.04 KB) Additional Information: full citation, abstract, references, citings

We present the results of an extensive computational study on dynamic algorithms for all pairs shortest path problems. We describe our implementations of the recent dynamic algorithms of King [18] and of Demetrescu and Italiano [7], and compare them to the dynamic algorithm of Ramalingam and Reps [25] and to static algorithms on random, real-world and hard instances. Our experimental data suggest that some of the dynamic algorithms and their algorithmic techniques can be really of practical valu ...

15 Advances in Model-Based Testing (A-MOST 2005): Test prioritization for pairwise interaction coverage

Renée C. Bryce, Charles J. Colbourn

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the first**

international workshop on Advances in model-based testing A-MOST '05, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(202.01 KB) Additional Information: full citation, abstract, references, index terms

Interaction testing is widely used in screening for faults. In software testing, it provides a natural mechanism for testing systems to be deployed on a variety of hardware and software configurations. Several algorithms published in the literature are used as tools to automatically generate these test suites; AETG is a well known example of a family of greedy algorithms that generate one test at a time. In many applications where interaction testing is needed, the entire test suite is not run a ...

Keywords: biased covering arrays, covering arrays, greedy algorithm, mixed-level covering arrays, pairwise interaction coverage, software interaction testing

16 Fairness and load balancing: Coordinated load balancing, handoff/cell-site selection, and scheduling in multi-cell packet data systems
Aimin Sang, Xiaodong Wang, Mohammad Madihian, Richard D. Gitlin
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(312.56 KB) Additional Information: full citation, abstract, references, index terms

We investigate a wireless system of multiple cells, each having a downlink shared channel in support of high-speed packet data services. In practice, such a system consists of hierarchically organized entities including a central server, Base Stations (BSs), and Mobile Stations (MSs). Our goal is to improve global resource utilization and reduce regional congestion given asymmetric arrivals and departures of mobile users. For this purpose, we propose a scalable cross-layer framework to coordinat ...

Keywords: HDR, HSDPA, cell-site selection, handoff, load balancing, multi-cell, opportunistic scheduling

17 Technology to enable learning: Strategic decisions on technology selections for facilitating a network/systems laboratory using real options & total cost of ownership theories
Kimfong Lei, Phillip T. Rawles
October 2003 **Proceedings of the 4th conference on Information technology curriculum CITC4 '03**
Publisher: ACM Press
Full text available: pdf(407.50 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses the selection of technologies that provide each student group a dedicated environment on a non-dedicated host machine. The authors investigated different combinations of enabling technologies and approaches, such as virtual machine technology, storage technology, and host operating system. Performance tests were developed and executed to profile the performance of the technologies. The results of this work provide an evaluation of the studied technologies and a selection gui ...

Keywords: VMware, course development, curriculum, end-user computing, innovative lab strategies in IT, interesting applications in IT, networking, operating systems, systems software

18 Server performance and scalability: A smart hill-climbing algorithm for application

server configuration
Bowei Xi, Zhen Liu, Mukund Raghavachari, Cathy H. Xia, Li Zhang
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(373.43 KB) Additional Information: full citation, abstract, references, index terms

The overwhelming success of the Web as a mechanism for facilitating information retrieval and for conducting business transactions has ledto an increase in the deployment of complex enterprise applications. These applications typically run on Web Application Servers, which assume the burden of managing many tasks, such as concurrency, memory management, database access, etc., required by these applications. The performance of an Application Server depends heavily on appropriate configuration. Co ...

Keywords: automatic tuning, gradient method, importance sampling, simulated annealing, system configuration

19 Approximations: Traffic engineering with estimated traffic matrices
Matthew Roughan, Mikkel Thorup, Yin Zhang
October 2003 **Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement**
Publisher: ACM Press
Full text available: pdf(248.12 KB) Additional Information: full citation, abstract, references, citings, index terms

Traffic engineering and traffic matrix estimation are often treated as separate fields, even though one of the major applications for a traffic matrix is traffic engineering. In cases where a traffic matrix cannot be measured directly, it may still be estimated from indirect data (such as link measurements), but these estimates contain errors. Yet little thought has been given to the effects of inexact traffic estimates on traffic engineering. In this paper we consider how well traffic engineeri ...

Keywords: MPLS, OSPF, SNMP, traffic engineering, traffic matrix estimation

20 IR-1 (information retrieval): information retrieval models: Simple BM25 extension to multiple weighted fields
Stephen Robertson, Hugo Zaragoza, Michael Taylor
November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**
Publisher: ACM Press
Full text available: pdf(205.08 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a simple way of adapting the BM25 ranking formula to deal with structured documents. In the past it has been common to compute scores for the individual fields (e.g. title and body) independently and then combine these scores (typically linearly) to arrive at a final score for the document. We highlight how this approach can lead to poor performance by breaking the carefully constructed non-linear saturation of term frequency in the BM25 function. We propose a much more i ...

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